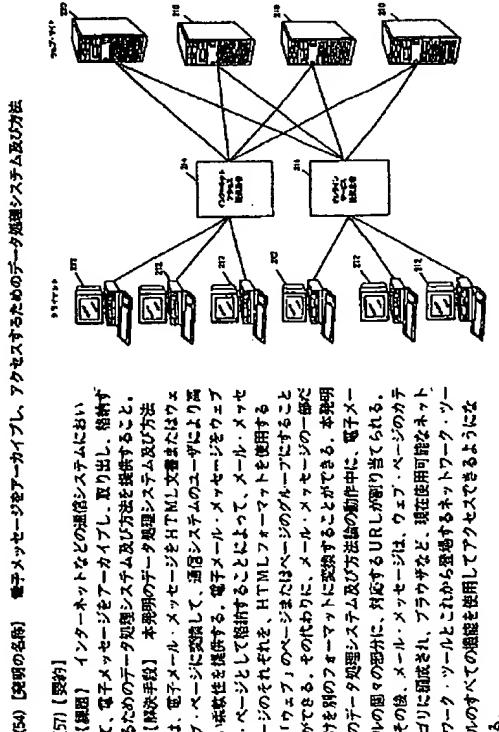


特開平11-232192

(12)

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[特許請求の範囲]
〔請求項1〕 送信装置から複数の電子メール・メッセージを取り出すステップと、複数の電子メール・メッセージを生成されたデータを生成するために複数回路に結合された、距離に対する距離測定を含む、通信手段を有するデータ通信装置が、第1 URLである、請求項1.3に記載の通信手段が、第1 URLである、請求項1.4に記載の通信手段が、ハイパーテキスト・マークетである、ハイパーテキスト・マークетアダプタ電話フォーマットである、請求項1.2に記載の通信手段が、通信ネットワークである、請求項1.5に記載位置が、通信ネットワーク内の距離測定手段によって隔離される記憶装置内の第1位置に複数の電子メール・メッセージを相互通信するステップとを含む、データ整理システム内でデータを組織するための方法。

〔請求項2〕 第1端子が、第1 URLである、請求項1.6に記載のグループに属するステップと、複数の電子文書を複数のグループのそれぞれにURLを割り当てるステップと含む、コンピュータ・ネットワーク内電子文書を編集するための方法。

〔請求項3〕 第1 URLを割り当てるステップと、複数の電子文書のうちの第1の電子文書と第2の電子文書との間のハイバーリンクを作成するステップとをさらに含む、請求項1.6に記載の方法。

〔請求項4〕 第1端子によって隔離される第1位置が、複数ネットワーク内のウェブ・ページに対応する、請求項1.1に記載の方法。

〔請求項5〕 距離、通信手段による距離測定結果が、複数の電子文書のうちの第1の電子文書と第2の電子文書との間の距離を算出する、複数のグループのうちの第1のグループに属する方法。

〔請求項6〕 さらに、少なくとも1つの他の測定結果が、複数の電子文書のうちの第1の電子文書と第2の電子文書との間の距離を算出するステップを含む、請求項5に記載の方法。

〔請求項7〕 ゲームとして1つの問題が提出された場合が、複数の電子文書のうちの第1の電子文書が、複数のグループのうちの第1のグループに属するURLが、複数ネットワーク内のウェブ・ページのリンクである、請求項7に記載の方法。

〔請求項8〕 第2のグループに含まれる、請求項1.7に記載の方法。

〔請求項9〕 第2のハイパーリンクが、外部URLに記載する、請求項1.7に記載の方法。

〔請求項10〕 第2端子によって隔離される第2位置に複数の電子メール・メッセージを相互通信するステップとをさらに含む、請求項1.6に記載の方法。

〔請求項11〕 さらに、第1特性によって決定されるグループで、複数の電子メール・メッセージを表示する。

〔請求項12〕 第2のグループのうちの第1位置に記載する、複数の電子メール・メッセージにアクセスするための装置と、

〔請求項13〕 第2のグループのうちの第1のグループから、複数の電子メールのうちの第2のグループへ、複数の電子文書のうちの第1の電子文書をコピーするステップと、

〔請求項14〕 第2のグループのうちの第2のグループと比較するための装置と、

〔請求項15〕 第2のグループのうちの第2のグループと比較するための装置と、

〔請求項16〕 複数の電子文書のうちの第1の電子文書に対応するURLと、複数のグループのうちの第2のグループと比較するための装置とをさらに含む、請求項16のように実現するステップとを含む、請求項16。

機圖平11-232192

三

卷之三

13

に含む。請求項34に記載のコンピュータ・プログラムは、
[請求項35] 前記の電子文書のうちの第1の電子文書
が、複数のグループのうちの第1のグループに含まれ
する複数の電子文書のうちの1つの電子文書が、複数のグ
ループのうちの第2のグループに含まれる、請求項34に記
載のコンピュータ・プログラム製品。

[請求項36] 前記の電子文書のうちの第1の電子文書
が、複数のグループのうちの第1のグループに含まれ
する複数の電子文書のうちの1つの電子文書が、複数のグ
ループのうちの第2のグループに含まれる、請求項34に記
載のコンピュータ・プログラム製品。

[請求項37] 第2のハイパーリンクが、外部URLに對
応する。請求項34に記載のコンピュータ・プログラ
ム製品。

[請求項38] 電子文書がハイパーテキスト・フォーマ
ットであるかどうかを出すための手続と、
電子文書をハイパーテキスト・フォーマットに変換する
ための手続とを含む、請求項34に記載のコンピ
ュータ・プログラム製品。

[請求項39] 選択された電子文書内のセクシ
ョンのうちのURLを操作する手段を含む、請求項34
に記載のコンピュータ・プログラム製品。

[請求項40] 相互のグループのうちの少なくとも1つ
が、複数の電子メール文書のうちの1つ以上の電子文書
を含む、請求項34に記載のコンピュータ・プログラム
製品。

[請求項41] 前記のグループのうちの第1のグループ
から、複数のグループのうちの第2のグループへ、複数
の電子文書のうちの第1の電子文書をコピーするための
手段と、
[請求項42] 前記の電子文書のうちの第2のグループに對応するよう
に、複数の電子文書のうちの第2の電子文書に對応する
URLを変更するための手段を含む、請求項3
4に記載のコンピュータ・プログラム製品。

[請求項43] さらに、URLに對応する起始位置に複
数の電子文書を格納する手段を含む、請求項34
に記載のコンピュータ・プログラム製品。

[請求項44] さらに、URLに對応する起始位置に複
数の電子文書へのアクセスを許すための手段を
含む、請求項34に記載のコンピュータ・プログラム製
品。

[請求項45] さらに、URLを介してアクセスできる
ウェブ・ページを生成するための手段を含む、請求項3
4に記載のコンピュータ・プログラム製品。

[請求項46] さらに、ウェブ・ページ上に複数のリンク
を表示するための手段を含む、複数のリンクのそれぞ
れが、複数のグループのそれぞれに割り当てられたURL
に対応するための手段を含む、請求項44に記載のコンピ
ュータ・プログラム製品。

[請求項47] さらに、前記の電子文書のうちの第1の電子文
書が、複数のグループのうちの第1のグループに含まれ
する複数の電子文書のうちの1つの電子文書が、複数のグ
ループのうちの第2のグループに含まれる、請求項34に記
載のコンピュータ・プログラム製品。

特許11-232192

6

卷之二十一

5

メナセージは、必ずファームソフトで接続されるので、そのままファームソフトで明確に記しているソールでなければアラートを明確に記する必要はない。さらに、Lotus Notesでは、ユーザがアーカイブしない、さらには、Lotus Notesのアーカイブの一部を監視プロセスで常にこじ切れない、逆に、ユーザは、面倒なプロセスで常にこじ切れない。そのため、アーカイブするデータベースを作成することによって、先述サーバーの使用データベースを作成できる。そのためには、そのデータベースを実用できるユーザが必要となる。つまり、このツクウエアはインストールするところが本筋になる。

HTM Lを使用して、受信した文書を自分で手動で操作したデータシステム及びデータ処理方法の構成を示す。

100101

PAGE 14/119 * RCVD AT 12/9/2005 8:19:56 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-6/24 * DNI:2738300 * CSID:+1 805 230 1355 * DURATION (mm:ss):67-022

特許平11-232192

88

ເລກທີ 11-232192

(7)

接続端子20と通信するSCSI (small computer syste
m Interface)アダプタとすることができる。選択アダ
プタ③4は、システム・バス3.1を外部のネットワ
ーク接続装置へ接続するためのデータ処理システムの拡張
部である。このデータ処理システムは、データ入出力装置
6、ユーザ・インターフェース、アダプタ3.2及び接
続装置アダプタ3.3を介してシステム・バス3.1に
接続される。キーボード3.2、マウス3.2及びモニ
タ3.2は、マウス3.2及びスピーカ3.2を介して、シス
テム・バス3.1に接続される。表示モニタ3.3及
び、表示装置アダプタ3.3によってシステム・バス3
は、音声装置アダプタ3.3に接続される。この結果で、ユ
ーザーは、キーボード3.2、マウス3.2及びスピ
ーカ3.2を介してシステムに入力することができる、スピ
ーカ3.2及び表示モニタ3.3を介してシステムから出力を受け取
ることができる。

(10024) データ処理システム3.00のCPU3.0
を操作して、ソフトウェア機能は、他のシステム端面で存
在することができる。バーガーは、コンピュータ・プログ
ラムを実行するために必要な情報を操作するためには、プログラム
の実行の次の段階のために必要な情報を操作するためには、人
工知能プログラムを実現するソフトウェア・プログラムま
たはプログラムのサブシステムとして実現できることに
留意せねばならない。

(10025) バーガーの1例が、コマンド文書プロセッ
サーである。バーザの詳細な説明を行うために、外語ユ
ーザーが、DOSプロンプトでのように入力した命令を機
器が、

接続320と通信するSCSI (small computer system Interface) アダプタとすることができる。通常アダプタ3-3-4は、システム・バス1-2をシステム全体のデータバスと互換性のあるようにする。人出力装置も、ユーザ・インターフェース・アダプタ3-2-2及び表示装置アダプタ3-2-6を介してシステム・バス3-1に接続される。キーボード-マウス-3-3-3とユーティリティ・バス3-2及びスピーカー3-2-8のすべてが、ユーザ・インターフェース・アダプタ3-2-2を介してシステム・バス3-1に相互接続される。表示モニタ3-3-8は、表示装置アダプタ3-3-6によってシステム・バス3-1に接続される。この他の3つは、キーボード-マウス3-2-6及びスピーカー3-2-8を介してシステム・バス3-2-6を介して、トラックボール3-2-3またはマウス3-2-6を介してシステムに入力することができ、スピーカ3-2-8及び表示モニタ3-3-8を介してシステムから出力を受け取ることができる。

0024 データ処理システム3-00のCPU3-10を使用して、ソフトウェア機能であるバーサ3-5を実行することができる。また、バーサは、別の回路装置で実行することでもできる。バーサは、コンピュータ・プログラミングで非常に簡単に使用され、通常は、プログラム実行の次回のループのために必要な要素を記述するために入力ストリームを指定するソフトウェア・プログラムまたはプログラムのサブシステムとして定義できることに免責されたい。

0025 バーサの1例が、コマンド文字列プロセッサーである。バーサがサブ機能を実行するために、外層ユーザが、DOSプロンプトで次のように入力した場合を検討する。

```
DIR D:\DATA\APP
```

バーサは、この入力を受け取り、実行中のプログラムの次の段落または次のサブシステムに、以下の項目を提供する。

```
コマンド= DIR  
ナラメータ= [0:既DATA]
```

オプション= [P]

0026 1次の操作では、「DIR」コマンドを実行するプログラムが表示されることができる。このプログラムには、バーサから送りのデータ(すなはちレータとオプション)が与えられ、これによって、そのプログラムは、ドライブC:\のディレクトリ「DATA」を走査し、1ページ分の情報を表示するなどに一時停止する(「P」オプション)ことができるようになる。さらには、AI(X-1)XはIBM Corporationの商標で、こちらなどのオペレーティング・システムを使用して、図3-3に示されたさまざまな構成要素の機能が認識される。

0027 動作中に、CPU3-10は、次で詳細に説明する「AI(X-1)」の初期化に電子メール・メッセージ

[第11-232192]

(15)

Abstract
 Table of Contents
 Chapter 1 - Getting Started
 Chapter 2 - Getting Going
 Chapter 3 - Keep Going
 Chapter 4 - Don't Stop Now
 Chapter 5 - Almost Finished
 Chapter 6 - Finishing Up
 Appendix A - Working with a Patent Attorney
 Glossary
 Index

Chapter 1 - Getting Started [Name=Chapter1-GettingStarted2-012]

Next to finish at the beginning.

Chapter 2 - Getting Going [Name=Chapter2-GettingGoing2-012]

Follow the yellow-brick road.

Chapter 3 - Keep Going [Name=Chapter3-KeepGoing2-012]

It's not: Follow the yellow-brick road.

Chapter 4 - Don't Stop Now [Name=Chapter4-DontStopNow2-012]

Follow, follow, follow, follow the yellow-brick road!

Chapter 5 - Almost Finished [Name=Chapter5-AlmostFinished2-012]

We're off to see the world, the wonderful world of us.

[第8]

し、「タグ」を付与している。次に、ユーザーが、独自のアクセクションをマークしたいと考えたと仮定する。ユーザーは、マウスを用いてメッセージ・テキストの一部を選択し、「クリック」する。ユーザーが付属Aの項目4を選択し、次の警告を表示したと仮定すると、ユーザーのシステムは、次のダイアログを用いて表示する。

Submission name: Peter_Jake
 Categories: Jake-Lawyers
 Isolate-Patents

[0059] HTMLメッセージ (HTML) の内容部分は、下記の形式を示すように規定される。前のコードと下のコードの相違点に下線を付けてあることに留意されたい。

<PRE>
<HTML>>
<HTML>

[0058] この機能で、ユーザーのシステムは、メッセージを送り、卓、付録などを含む適切な項目を識別

[第11-232192]

(16)

Chapter 6 - Finishing Up [Name=Chapter6-FinishingUp2-012]
 Put up your feet, grab a coffee, and curl up with a good book.

Appendix A - Working with a Patent Attorney [Name=AppendixA-WorkingWithAPatentAttorney2-012]

It's not so hard. There are a few things to keep in mind though:

- 1.) Get to the point. Trim the fat.
- 2.) Avoid jargon; you can't keep correspondence.
- 3.) Don't forget the EUL At the end of the memo when addressing.
- 4.) And by all means remember: lawyers jokes are in poor taste. They will probably get you off to a bad start and may ruin your chances at the patent office.

[Name=Section2-012]

Apple
 Banana
 Chicken
 Cow
 Dog

[第9]

し、「タグ」を付与している。次に、ユーザーが、独自のアクセクションをマークしたいと考えたと仮定する。ユーザーは、マウスを用いてメッセージ・テキストの一部を選択し、「クリック」する。ユーザーが付属Aの項目4を選択し、次の警告を表示したと仮定すると、ユーザーのシステムは、次のダイアログを用いて表示する。

Submission name: Peter_Jake
 Categories: Jake-Lawyers
 Isolate-Patents

[0059] HTMLメッセージ (HTML) の内容部分は、下記の形式を示すように規定される。前のコードと下のコードの相違点に下線を付けてあることに留意されたい。

<PRE>
<HTML>>
<HTML>

[第10]

(1.7) 番号11-232192

It's not so hard. There are a few things to keep in mind though:

- 1) Get in the point. Tongue (high)
- 2) Avoid pronouns you can't keep
- 3) Don't forget the fact at the end of the name & when addressing correspondence.
- 4) And by all means remember: Always stick to a point form. They will probably get you off to a bad start and easy ruin your chances in the patent office. `SystemName=Patent_Job`

(Glue) `<td name="Glue"></td>`

Apple
Banana
Chicken
Cow
Dog
Eggs
Fruit
Gum
Ham
Ice
Jokes
Lawn
Ward

`Index<td name="Index"></td>`

Apple
Application
Banana
Book
Chicken
Cow
Dog
Eggs
Fruit
Gum
Ham
Ice
Jokes
Lawn
Ward

[1.1] `index<td>index</td>`

1. メッセージは、下記のURLによって信送達される既接空間にファイル名「es001.html」として表示される。
 2. URL 「<http://www.mailserver.bethcompany.com/mailboxes/beth/index.htm>」に接続する。

3. サブセクションのURLを、「index.htm」のステップ2のURLの直後に追加する。

4. 次の形式のURL
http://www.mailserver.bethcompany.com/mailboxes/beth/es001.html/Patent_Joke

5. 次の形式のURL
<http://www.mailserver.bethcompany.com/mailboxes/beth/jokes/001.html>

6. システムは、ユーザーがメール機能を操作する。すると、ユーザーのシステムは、下記のステップを実行する。

1. メッセージは、下記のURLによって信送達される既接空間にファイル名「es001.html」として表示される。
 2. URL 「<http://www.mailserver.bethcompany.com/mailboxes/beth/index.htm>」に接続する。

3. システムは、ユーザーの次の要求を待つ。

4. 「001」この数字で、インテックスは、下の形で指定されている。
 5. インテックス: <http://www.mailserver.bethcompany.com/mailboxes/beth/jokes/patents>

(1.8)

番号11-232192

[1.1.2] `y.com/mailboxes/beth/index.htm`

```
<!DOCTYPE PUBLIC "-//IETF//DTD HTML 2.0//EN">
<html>
<head>
<title>Saved Mail</title>
</head>
<body>
<h1>Index of Saved Mail</h1>
<ul>
<li><a href="index.htm">Plain Application Status</a>
<li><a href="msg001.html">Chapter 1 - Getting Started</a>
<li><a href="msg002.html">Chapter 2 - Getting Up</a>
<li><a href="msg003.html">Chapter 3 - Keeping Going</a>
<li><a href="msg004.html">Chapter 4 - Don't Stop Now</a>
<li><a href="msg005.html">Chapter 5 - Almost Finished</a>
<li><a href="msg006.html">Chapter 6 - Finishing Up</a>
<li><a href="msg007.html">Appendix A</a>
<li><a href="msg008.html">Appendix B</a>
<li><a href="msg009.html">Index.htm</a>
</ul>
</body>
</html>
```

[0.6.2] このコードが実行される場合には、下記のアーリーインデックスが表示画面に表示される。
 [1.3]

| | |
|---|--|
| Index of Saved Mail | Plain Application Status |
| Main Info | WhichPatent.Patents |
| Abstract | Table of Contents |
| Chapter 1 - Getting Started | Chapter 2 - Getting Going |
| Chapter 3 - Keep Going | Chapter 4 - Don't Stop Now |
| Chapter 5 - Almost Finished | Chapter 6 - Finishing Up |
| Appendix A | Appendix B |
| Glossary | Index |

特許平11-232192

(19)

特許平11-232192

[0063] ユーザが2つの通知メッセージを発信した
際に2、下記のコードインデックスがコード化
され6。
[0064]

```

<HTML>
<HEAD>
<TITLE>Social Mail</TITLE>
<HEAD>
<BODY>
<H1><a href="#">Index of Saved Mail</a></H1>
<div>
<div><a href="http://120.111.111.111">Dear Application Status</a></div>
<div><a href="http://120.111.111.111">More Info</a></div>
<div><a href="http://120.111.111.111">Which types on Patent</a></div>
<div>
<div><a href="http://120.111.111.111">Abstract</a></div><div><a href="http://120.111.111.111">Table of Contents</a></div>
<div><a href="http://120.111.111.111">Chapter 1 - Getting Started</a></div>
<div><a href="http://120.111.111.111">Chapter 2 - Getting Going</a></div>
<div><a href="http://120.111.111.111">Chapter 3 - Keeping Up</a></div>
<div><a href="http://120.111.111.111">Chapter 4 - That's It</a></div>
<div><a href="http://120.111.111.111">Chapter 5 - Almost Finished</a></div>
<div><a href="http://120.111.111.111">Chapter 6 - Finishing Up</a></div>
<div><a href="http://120.111.111.111">Appendix A</a></div>
<div><a href="http://120.111.111.111">Appendix B</a></div>
<div><a href="http://120.111.111.111">About</a></div>
<div><a href="http://120.111.111.111">Help</a></div>
<div><a href="http://120.111.111.111">Logout</a></div>
</div>
</div>

```

[0064] このコードが実行された瞬間に、下記の7
コードインデックスがユーザの表示画面に表示さ
れ7。
[0065]

Index of Saved Mail

- Patent Application Status from:Robert Tycst Date: 11/01/97
- More Info from:Robert Tycst Date: 11/02/97
- White Paper on Patents from:Robert Tycst Date: 11/03/97

Abstract

Table of Contents

- Chapter 1 - Getting Started
- Chapter 2 - Getting Going
- Chapter 1 - Katz Guide
- Chapter 4 - Don't Stop Now
- Chapter 5 - Almost Finished
- Chapter 6 - Finishing Up

Appendix A

Appendix B

About

Help

Logout

Index

Patent Application Status

More Info

White Paper on Patents

About

Help

[0065] インデックスを表示する方法は、非常に柔軟であり、強力であることに留意せたい。上に示した例は、本発明を不要に不適切にしないものである。
たとえば、情報（日付と送信者）をインデックスに表示するもう1つの方法は、下のコードに示す。
[0066]

PAGE 21/119 * RCVD AT 12/9/2005 8:19:56 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-6/24 * DNIS:2738300 * CSID:+1 805 230 1355 * DURATION (mm:ss):67-02

排版11-232192

(22)

11-232192

二二

| Date | From | To | Subject |
|---------|-----------------|-----------------|---------------------------|
| 1/10/97 | Robert T. Jones | Robert T. Jones | Patent Application Status |
| 1/02/97 | Robert T. Jones | Robert T. Jones | Block Jcts. |
| 1/10/97 | Robert T. Jones | Robert T. Jones | White Paper on Patents |

「[0067]」から、ユーザーは、車に運ぶべきキリストをクリッカすることによって、メッセージまたはサセクションのどれにでもアクセスすることに強制された。竜巻メッセージは、「From: フィールドの住所」と「[0068]」他のアーカイブのインデックスも、同時にクリックすることによって選択できる。

(25)

件番号11-232192

(26)

件番号11-232192

<DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 1.2 Final//EN">
<HTML>
<HEAD>
<TITLE>
<ADDRESS>
To: Robert F.
<ADDRESS>
From: Beth Agency

<ADDRESS>
<PR>
Hi,

I have some more information for you.

Regards,
Robert

<PR>

<PR>

[0078] さらに、元のメッセージで生田が指定されたいた場合は、アドレス・セクションにこれを追加する。<DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 1.2 Final//EN">
<HTML>
<HEAD>
<TITLE>[件名] Application</TITLE>
<HEAD>
<BODY>
<ADDRESS>
To: Robert F.
<ADDRESS>
Subject: Plain Application
<ADDRESS>
<PR>

Hi,

I have some more information for you concerning the invention.

Regards,
Robert

<PR>

<PR>

[0079] 例B
文書をHTMLに変換する方法は多種存在し、これらの方法は、当該書面に開示するものと同様に表示される。ただし、本明細書の目的のかたで書をHTMLに変換するのに使用できるスクリプトを説明したが、以下の段落では、お手軽ファイル（enclosure）を付する文書を変換し、ファイルリンクする方法を提供する。以下の通りで

MIME-Version: 1.0
To: [redacted]
From: Robert F.
Subject: Here are the files!
Content-Type: multipart/mixed;
boundary=unique-boundary-1
unique-boundary-1
Content-Type: charset-US-ASCII
Beth.

Here are the two files that I'd like you to review. The first one is a pdf, the second is a zip.

Regards,
Robert

<unique-boundary-1
Content-Type: multipart/related;
boundary=unique-boundary-2
unique-boundary-2
Content-Type: image/jpeg
Content-Transfer-Encoding: base64
--base64 はうなされた画像データがここにある。 ...
<unique-boundary-2
Content-Type: image/gif
Content-Transfer-Encoding: base64
--base64 はうなされた画像データがここにある。 ...
<unique-boundary-1
unique-boundary-1
Content-Type: image/png
Content-Transfer-Encoding: base64
--base64 はうなされた画像データがここにある。 ...
<unique-boundary-1
unique-boundary-1
[0080] 略稿の最初のステップは、メッセージから2つのファイルを抽出することである。これらのファイルを抽出すれば、以下の通りで、[件名].jpg及び[件名].gifと呼ぶ。これらのファイルは、物理的には送信されたメッセージと共に格納されるが、これは必要なではない。次に、メッセージを下記と同様に表示して、下記と並べて並べる。

[0081] 略稿の最初のステップは、メッセージから2つのファイルを抽出することである。これらのファイルを抽出すれば、以下の通りで、[件名].jpg及び[件名].gifと呼ぶ。これらのファイルは、物理的には送信されたメッセージと共に格納されるが、これは必要なではない。次に、メッセージを下記と同様に表示して、下記と並べて並べる。

特許平11-232192

(28)

特許平11-232192

(27)

<DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0 Final//EN">
<HTML>
<HEAD>
<TITLE>Here we find <TITLE>
</HEAD>
<BODY>
<ADDRESS>
To: Ulich Aperleff
From: Robert Tyrone

Subject: Here are the files</BR>
</ADDRESS>
<P>B
Ulich
Here are the two files that I will like for you to review. The first one is a
Just the second is a gif.
Report,
Robert
</P><P>
</P><P>
</P>

[表28] 10082次に、画像ファイルのハッシュリンクが
追加される

[第281回] 100821 深夜、画面がアリスのものになる。アーヴィング

PAGE 25/119 * RCV'D AT 12/9/2005 8:19:56 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-6/24 * DNI\$:2738300 * CSID:+1 805 230 1355 * DURATION (mm:ss):67-02F

中華書局影印
11-232192

(24) 現在のグループのうちの第1のグループから、複数のグループのうちの第2のグループへ、複数の電子文書のうちの第1の電子文書と第2の電子文書との間のハイパーリンクを作成するための手段と、複数の電子文書のうちの第1の電子文書と複数のグループから、複数の電子文書のうちの第2の電子文書が含まれ、複数のグループのうちの第2の電子文書が、複数のグループのハイパーリンクを作成するための手段とをさらにはし、上記(34)に記載のコンピュータ・プログラマム群。

(36) 複数の電子文書のうちの第1の電子文書が、複数のグループのうちの第1のグループへ含まれ、複数の電子文書のうちの第2の電子文書が、複数のグループのハイパーリンクが、複数のグループの第2の電子文書が含まれる、上記(34)に記載のコンピュータ・プログラマム群。

(37) 第2のハイパーリンクが、外部URLに対応するかどうかを検出するための手段と、電子文書をハイパーテキスト・フォーマットで記載するための手段とを含む、上記(34)に記載のコンピュータ・プログラム群。

(38) 電子文書がハイパーテキスト・フォーマットで記載するための手段と、電子文書をハイパーテキスト・フォーマットで記載するための手段とを含む、上記(34)に記載のコンピュータ・プログラム群。

(39) さらに、記載された電子文書内のセクションのハイパーテキストを生成する手段を含む、上記(34)に記載のコンピュータ・プログラム群。

(40) 複数のグループのうちの少なくとも1つが、複数の電子メール文書のうちの1つ以前の電子文書を含む、上記(34)に記載のコンピュータ・プログラム群。

(41) 複数のグループのうちの第1のグループから、複数のグループのうちの第2のグループへ、複数の電子文書のうちの第1の電子文書をコピーするための手段と、複数の電子文書のうちの第2のグループへ記載するための手段とを含む、上記(34)に記載のコンピュータ・プログラム群。

(42) さらに、URLに対応する記載位置に複数の電子文書を記載するための手段とを含む、上記(34)に記載のコンピュータ・プログラム群。

(43) さらに、URLに対応する記載位置に複数の電子文書を記載するための手段とを含む、上記(34)に記載のコンピュータ・プログラム群。

(44) さらに、URLに対応する記載位置に複数の電子文書を記載するための手段とを含む、上記(34)に記載のコンピュータ・プログラム群。

(45) さらに、ウェブ・ページ上に複数のリンクを作成するための手段とを含む、上記(34)に記載のコンピュータ・プログラム群。

(46) さらに、外部ユーザーがコンピュータ・ネットワークへ接続するための手段とを含む、上記(34)に記載のコンピュータ・プログラム群。

(47) さらに、複数の電子文書のうちの第1の電子文書と複数の電子文書のうちの第2の電子文書が、複数の電子文書のうちの第3の電子文書と複数の電子文書のうちの第4の電子文書と接続するための手段とを含む、上記(34)に記載のコンピュータ・プログラム群。

(48) さらに、複数の電子文書のうちの第1の電子文書と複数の電子文書のうちの第2の電子文書が、複数の電子文書のうちの第3の電子文書と複数の電子文書のうちの第4の電子文書と接続するための手段とを含み、上記(34)に記載のコンピュータ・プログラム群。

(49) さらに、複数の電子文書のうちの第1の電子文書と複数の電子文書のうちの第2の電子文書が、複数の電子文書のうちの第3の電子文書と複数の電子文書のうちの第4の電子文書と接続するための手段とを含み、上記(34)に記載のコンピュータ・プログラム群。

(50) さらに、複数の電子文書のうちの第1の電子文書と複数の電子文書のうちの第2の電子文書が、複数の電子文書のうちの第3の電子文書と複数の電子文書のうちの第4の電子文書と接続するための手段とを含む、上記(34)に記載のコンピュータ・プログラム群。

(301)

(47) らに、外部ユーチャがコンピュータ・ネットワークへ接続するための手順を示す。まず、上記(34)に記載のコンピュータ・プログラム起動部。

(48) URLが、コンピュータ・ネットワーク内のクエスト・ページへのリンクである。上記(34)に記載の

[画面の構成] [画面の構成] [画面の構成]

(49) ブロック図形式で電子メールセシング・システムを示す。各部の説明は以下のとおり。

[通信部] 本発明の通信部によると、通信のインターネット接続システムをプロトコル形式で示す部分である。

[データ・フローセット] 本発明の1種類所によるとデータ・フローセットを示す部分である。

[プロトコル] 本発明のプロトコル形式で示す部分である。

[データ・カバー] 本発明の1種類所によると、電子メール・メッセージのアーカイブ・機能及び提出を行ううえに付与される各機能を示す部分である。

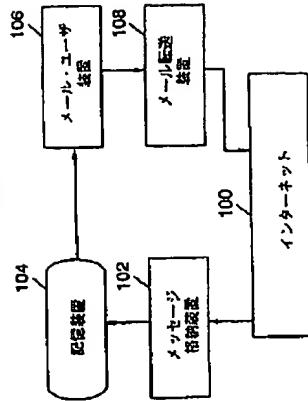
[データ・マネージメント] 本発明のデータ・マネージメント形式で示す部分である。

[メッセージ] [メッセージ] [メッセージ]

[メッセージ] [メッセージ] [メッセージ]

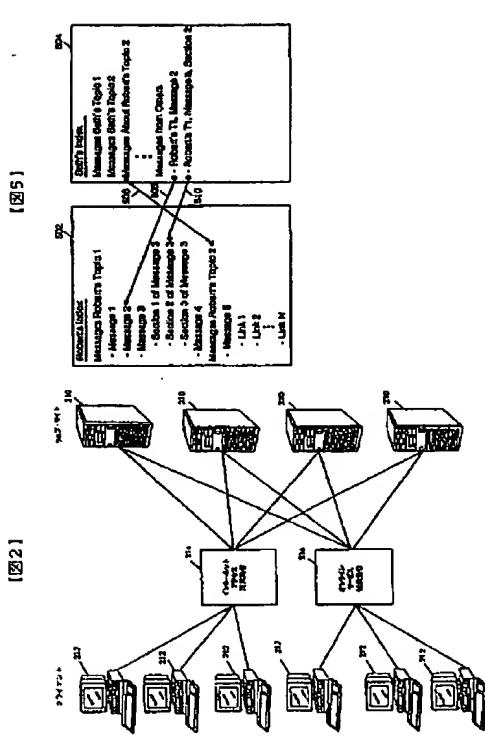
[メッセージ] [メッセージ] [メッセージ]

四

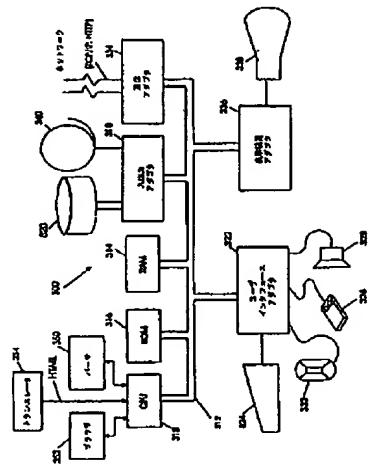


特許平11-232192

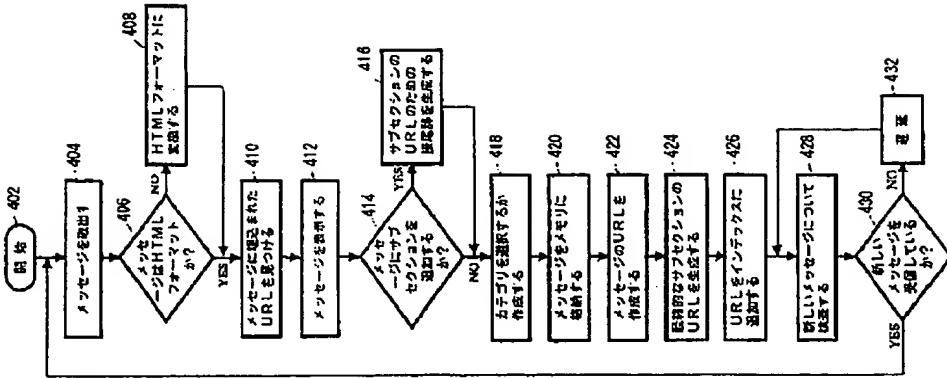
(32)



[図3]



[図4]



特許平11-232192

PATENT ABSTRACTS OF JAPAN

(11) Publication number : 11-232192
 (43) Date of publication of application : 27.08.1999
 (51) Int.Cl.
 G06F 13/00
 HDL 12/54
 HDL 12/58

(21) Application number : 10-296545
 (71) Applicant : INTERNAL BUSINESS MACH CORP (IBM)

(22) Date of filing : 19.10.1998
 (72) Inventor : TYCAST ROBERT LEONARD

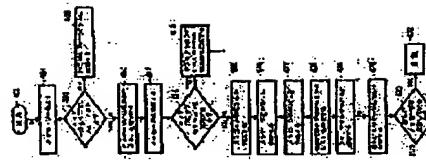
(30) Priority number : 97 974573 Priority date : 19.11.1997 Priority country : US

(54) DATA PROCESSING SYSTEM AND METHOD FOR ARCHIVING AND ACCESSING ELECTRONIC MESSAGE

(57) Abstract:

PROBLEM TO BE SOLVED: To make a user able to use HTML and compile a received document to a category selected by user itself by taking out plural electronic messages and selectively converting them into a first format.

SOLUTION: After a message is received in an HTML format or converted into the HTML format, a CPU analyzes the received message and finds a buried URL (S410). After the analysis, data signals and control signals for displaying the message are supplied (S412). A sub section is selectively added to the displayed message and a suffix to be used later is generated for the respective sub sections (S414 and 416). The user selects or prepares the category for storing the received message (S418) and stores the message in a memory (S420). A web site accessed by the user generates the URL corresponding to the message and completes the URL of the sub section (S422 and 424).



LEGAL STATUS

[Date of request for examination] 27.07.1999
 [Date of sending the examiner's decision of rejection] 16.01.2001

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]
 [Date of final disposal for application]
 [Patent number] 3437929

[Date of registration] 08.06.2003
 [Number of appeal against examiner's decision of rejection] 2001-04408
 [Date of requesting appeal against examiner's decision of rejection] 22.03.2001
 [Date of extinction of right]

Copyright (C) 1998-2003 Japan Patent Office

* NOTICES *

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This document has been translated by computer. So the translation may not reflect the original precisely.
2.*** shows the word which can not be translated.
3. In the drawings, any words are not translated.

CLAIMS

[Claim(s)]

[Claim 1] In order to generate the step which takes out two or more electronic mail messages from a communication device, and the data value from which the 1st plurality was changed. The step which changes two or more electronic mail messages into the 1st format alternatively. The approach containing the step which stores two or more electronic mail messages in the 1st location in the step which generates the 1st identifier for two or more electronic mail messages, and the store identified by the 1st identifier for composing data within data processing system.

[Claim 2] The approach according to claim 1 the 1st identifier is the 1st URL.

[Claim 3] The approach according to claim 1 the 1st format is a HyperText-Markup-Language format.

[Claim 4] The approach according to claim 1 corresponding to the web page in a communication network in the 1st location identified by the 1st identifier.

[Claim 5] The approach according to claim 4 a communication network is the Internet.

[Claim 6] Furthermore, the approach according to claim 1 at least one embedded indicator contains the step which judges the time of being contained in two or more 1st electronic mail messages.

[Claim 7] The approach according to claim 6 at least one embedded indicator is embedded URL.

[Claim 8] The approach according to claim 7 embedded URL is a link to the web page in a communication network.

[Claim 9] The approach according to claim 1 of containing further the step which generates the 2nd identifier of the same for two or more electronic mail messages part 1, and the step which stores a part for part 1 of two or more electronic mail messages in the 2nd location identified by the 2nd identifier.

[Claim 10] Furthermore, the approach containing the step which identifies the 1st property of two or more electronic mail messages according to claim 1.

[Claim 11] Furthermore, the approach according to claim 10 of containing the step which displays two or more electronic mail messages in the format for which it opts with the 1st property.

[Claim 12] In order to generate the equipment for accessing two or more electronic mail messages, and the data value from which the 1st plurality was changed and to change two or more electronic mail messages into the 1st format. The conversion means combined with the equipment for [above-mentioned] carrying out access, and the discrimination decision circuit for generating the identifier corresponding to the data value from which the 1st plurality was changed. The communication network including a store circuit which is combined with a conversion means in order to receive the data value from which the 1st plurality was changed, is combined with a discrimination decision circuit in order to receive an identifier, and stores the data value from which the 1st plurality was changed into the storage location corresponding to an identifier.

[Claim 13] The communication network according to claim 12 whose 1st identifier is the 1st URL.

[Claim 14] The communication network according to claim 12 whose 1st format is a HyperText-

Markup-Language format.

[Claim 15] The communication network according to claim 12 corresponding to the web page in a communication network in the storage location.

[Claim 16] The approach containing the step of which two or more electronic filing documents are composed in two or more groups, and the step which assigns each of two or more groups URL for composing an electronic filing document within a computer network.

[Claim 17] The approach according to claim 16 of containing further the step which assigns each of an electronic filing document Subsection URL, and the step which creates the hyperlink between the 1st electronic filing document of two or more electronic filing documents, and the 2nd electronic filing document according to corresponding URL.

[Claim 18] The approach according to claim 17 by which the 1st electronic filing document of two or more electronic filing documents and the 2nd electronic filing document are composed by the 1st group of two or more groups.

[Claim 19] The approach according to claim 17 by which the 1st electronic filing document of two or more electronic filing documents is contained in the 1st group of two or more groups, and the 2nd electronic filing document of two or more electronic filing documents is contained in the 2nd group of two or more groups.

[Claim 20] The approach according to claim 19 corresponding to Exterior URL in the 2nd group of two or more groups.

[Claim 21] The approach according to claim 17 corresponding to claim 16 of containing further the step which judges whether an electronic filing document is hypertext format, and the step which changes an electronic filing document into a hypertext format.

[Claim 22] Furthermore, the approach containing the step which creates URL for the section in the selected electronic filing document according to claim 21.

[Claim 23] The approach according to claim 16 at least one of two or more groups contains electronic filing documents other than one of two or more electronic mail documents.

[Claim 24] The approach according to claim 16 of containing further the step which copies the 1st electronic filing document of two or more electronic filing documents to the 2nd group of the 1st group to two or more groups of two or more groups, and the step which changes URL corresponding to the 1st electronic filing document of two or more electronic filing documents so that it may correspond to the 2nd group of two or more groups.

[Claim 25] Furthermore, the approach containing the step which stores two or more electronic filing documents in the storage location relevant to URL according to claim 16.

[Claim 26] Furthermore, the approach containing the step which requires access to two or more electronic filing documents in the storage location relevant to URL according to claim 16.

[Claim 27] Furthermore, the approach containing the step which creates an accessible web page through URL according to claim 18.

[Claim 28] Furthermore, the approach according to claim 27 corresponding to URL of two or more links assigned to each of two or more groups, respectively including the step which creates two or more links on a web page.

[Claim 29] Furthermore, the approach containing the step to which an external user enables it to access at least the part of two or more electronic filing documents, when an external user inputs URL into a computer network.

[Claim 30] Furthermore, the approach containing the step which an external user does by the ability not accessing at least the part of two or more electronic filing documents when an external user inputs URL according to claim 18.

[Claim 31] The approach according to claim 16 URL is a link to the web page in a computer network.

[Claim 32] The category creation means for creating two or more categories by which URL is assigned to each, in order to carry out grouping of two or more electronic mail documents. The user dialogue means for assigning one alternatively of two or more categories is included by, the electronic mail box for receiving two or more electronic mail documents and two or more electronic mail documents being alike, respectively. The electronic mail system which can assign URL corresponding to one URL in two or more categories of the electronic mail document to

which plurality was assigned, respectively.

[Claim 33] Furthermore, the electronic mail system containing the translator for changing alternatively each of two or more electronic mail documents into a hypertext format according to claim 32.

[Claim 34] The computer program product including the means for composing two or more electronic filing documents in two or more groups, and the means for assigning each of two or more groups URL in a computer-readable medium for composing an electronic filing document within a computer network.

[Claim 35] The computer program product according to claim 34 which includes further the means for creating the hyperlink between the means for assigning each of an electronic filing document Subsection URL, and the 1st electronic filing document of two or more electronic filing documents and the 2nd electronic filing document according to corresponding URL.

[Claim 38] The computer program product according to claim 34 with which the 1st electronic filing document of two or more electronic filing documents is contained in the 1st group of two or more groups, and the 2nd electronic filing document of two or more electronic filing documents is contained in the 2nd group of two or more groups.

[Claim 37] The computer program product according to claim 34 corresponding to Exterior URL in the 2nd hyperlink.

[Claim 38] The computer program product according to claim 34 which includes further the means for detecting whether an electronic filing document is a hypertext format, and the means for changing an electronic filing document into a hypertext format.

[Claim 39] Furthermore, a computer program product including a means to create URL for the section in the selected electronic filing document according to claim 34.

[Claim 40] The computer program product according to claim 34 with which at least one of two or more groups contains electronic filing documents other than one of two or more electronic mail documents.

[Claim 41] The computer program product according to claim 34 which includes further the means for copying the 1st electronic filing document of two or more electronic filing documents to the 2nd group of the 1st group to two or more groups of two or more groups, and the means for changing URL corresponding to the 1st electronic filing document of two or more electronic filing documents so that it may correspond to the 2nd group of two or more groups.

[Claim 42] Furthermore, a computer program product including the means for storing two or more electronic filing documents in the storage location relevant to URL according to claim 34.

[Claim 43] Furthermore, a computer program product including the means for requiring access to two or more electronic filing documents in the storage location relevant to URL according to claim 34.

[Claim 44] Furthermore, a computer program product including the means for creating the web page which can be accessed through URL according to claim 34.

[Claim 45] Furthermore, the computer program product according to claim 44 corresponding to URL of two or more links assigned to each of two or more groups, respectively including the means for creating two or more links on a web page.

[Claim 46] Furthermore, the computer program product according to claim 34 which includes a means for an external user to enable it to access at least the part of two or more electronic filing documents when an external user inputs URL into a computer network.

[Claim 47] Furthermore, the computer program product according to claim 34 which includes a means for an external user to prevent from accessing at least the part of two or more electronic filing documents when an external user inputs URL into a computer network.

[Claim 48] The computer program product according to claim 34 whose URL is a link to the web page in a computer network.

[Translation done.]

* NOTICES *

JPO and NCIPI are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. *** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] Generally, this invention accesses an electronic message, specifically accesses an electronic message about the data processing system and the data-processing approach for composing this, and relates to the data processing system and the data-processing approach for composing of HyperText Markup Language.

[0002]

[Description of the Prior Art] The network of the computer of the worldwide scale generally known as the "Internet" has grown explosively in the past several years. This growth was promoted by the installation and spread of "web" browsers which can usually access a Network Server based on a simple graphical user interface. Such a Network Server usually supports the document formatted as a "web page." "World Wide Web" (WWW) is the set of the server using a HyperText Transfer Protocol (HTTP) on the Internet. HTTP is a known application protocol for providing a user with access to the file which uses the standard Page Description Language called HyperText Markup Language (HTML). These files should care about that it can provide in different formats, such as a text, graphics, an image, voice, and video. Fundamental document formatting is offered by HTML and a developer can specify now the "link" to other servers and files by it. In case a HTML conformity client browser is used, assignment of the link through a uniform resource locator (URL) is performed. When URL is specified, a client can perform a TCP/IP demand to the server identified by the link, and can receive a "web page" as the response. This "web page" is the document formatted according to HTML.

[0003] Current and the Internet are mainly used by the individual who desires access to information and service. Electronic mail messaging service is in the service which the Internet offers. If this is used, a user can communicate mutually in an easy and timely form regardless of a physical location.

[0004] Drawing 1 is drawing showing the standard electronic mail system configuration carried out in the communication network. Working [such a standard electronic mail configuration], the message enclosure 102 receives arrival-of-the-mail mail, and puts on storage [04. E-mail user equipment 106 accesses the message often memorized by the store [04, and offers the interface to the user of an electronic mail system. When a user wants to transmit e-mail, a message is created using e-mail user equipment [06, and message transfer equipment [08 is passed. It judges whether the address of e-mail is specified correctly and message transfer equipment 108 is package-sized for the transfer of e-mail in a communication network. Actuation and architecture of usual electronic mail equipment are explained in the bottom.]

[0005] With a classic electronic mail configuration, a message storing agent (MSA) collects

arrival-of-the-mail mails, and puts on message enclosure, although it often comes out that it is

another program. An e-mail user agent (MUA) reads the message stored in message enclosure,

and shows and interfaces with an external user. When a user wishes transmission or e-mail, the message is created using MUA and passed to a message transfer agent (MTA). The address of

e-mail is specified correctly and MTA checks being packetized for the transfer on a communication network of e-mail. The mail transmitted to the equipment intermittently

connected to a network can be included in other electronic mail systems. In such a system, MUA is permitted by the mail server which serves the demand through the intermittent circuit from e-mail proxy equipment. When there is a demand from e-mail proxy equipment, the copy of mail in message enclosure is copied to the storage of the computer besides a network. Then, a mail server advances in a form similar to the upper explanation, and the message enclosure explained above and an MTA function are included in the element of mail server. Dispatch mail can be formatted by the computer side besides a network for delivery, and can be delivered to a mail server through an e-mail proxy for the delivery to a communication network. The transaction between the mail servers on the calculating machine besides a network and the calculating machine which is always on a network is generated whenever connection is active.

[0006]

[Problem(s) to be Solved by the Invention] Although such a conventional electronic mail messaging system operates appropriately about almost all applications, such as a conventional electronic mail system has some limits. Speaking concretely, electronic mail systems, such as whose was described in the top, lacking in flexibility, and being unable to attach an index (index) to a message in the form which a user can use conveniently or easily, or being unable to carry out cross-reference of the message. Furthermore, when a new communication network and new application are developed, a user cannot correct the protocol in an electronic mail messaging system, in order to usually communicate with new application. It is because such a conventional electronic mail system is mounted using the original format, whose correction cannot access by the user but is also impossible. Furthermore, with such a conventional electronic mail messaging system cannot be shared in an easy form, either. On the contrary, a user has to perform arrangements for having to perform another treatment or sharing the others and information through exchange of a password etc., in order to transmit a message to a third person. Therefore, although the functionality of the Internet and mixing of the conventional electronic mail messaging system exist, the conventional electronic mail messaging system is not followed at the technical progress stimulated by progress of WWW. Therefore, the need for an electronic mail messaging system of giving big flexibility by the user at the time of storing of an electronic mail message, reception, and an archive exists. Furthermore, the need for the messaging system which answers the technique locked at by WWW of changing exists.

[0007] Furthermore, such a conventional electronic mail messaging system cannot provide a user with flexibility when composing the e-mail message and other HTML documents which the user received through the communication network. Such a conventional electronic mail messaging system can offer the approach of sorting a message based on the urgency of a message, or the time of message reception. However, a user may think that he wants to compose an e-mail message according to the original need or the original purpose of use. Lotus Notes (trademark) is the example of an electronic mail messaging system. A user can store a received message by specifying one or more categories applied to a received message. A message should care about arriving without being divided into a category. When it chooses that a user stores a message, an electronic mail system gives an opportunity to determine the category relevant to the message as a user. the category of existing which may already exist if it becomes which a user desires — in addition — or a new category can be created instead of it and it can also relate with a message.

[0008] Although the system of this category is very useful to retrieval of an electronic mail database, the above-mentioned limit is received. Speaking concretely, a user's being unable to attach an index to the part or subsection of a message. In Lotus Notes, the most detailed level of the detail permitted is the whole message. This may become a limit very severe for many users. Furthermore, in Lotus Notes, a general-purpose tool cannot be used to the archived message. Since it is stored in an original format, if a message is not the tool which knows the format clearly, it cannot be accessed. Furthermore, in Lotus Notes, a user cannot share a part of archive or archive easily. On the contrary, although a user can share a message by creating the common database on a common server in a trouble same process, it is necessary for all the members of the users who share the archive to install the same software for that purpose.

[0009] Therefore, the need for the data processing system and the data-processing approach of

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http://www4.ipdlnicipi.go.jp/cgi-bin/tran_web.cgi.cgi

http://www4.ipdlnicipi.go.jp/cgi-bin/tran_web.cgi.cgi

enabling it to compose the document which the user used HTML and received in the category chosen by itself exists.

[0010] [Means for Solving the Problem] The need described above is satisfied by this invention. Therefore, with the 1st gestalt, the method of composing data within data processing system is offered. In order to generate the step which takes out two or more electronic mail messages from a communication device, and the data value from which the 1st plurality was changed, the step which changes two or more electronic mail messages into the 1st format alternatively is contained in this approach. Moreover, the step which stores two or more electronic mail messages in the 1st location in the step which generates the 1st identifier of two or more electronic mail messages, and the store identified by the 1st identifier is contained in this approach.

[0011] Furthermore, a communication network is offered with the 2nd gestalt. In this communication network, in order to generate the equipment for accessing two or more electronic mail messages, and the data value from which the 1st plurality was changed, the inverter for changing two or more electronic mail messages into the 1st format is contained. An inverter is combined with the equipment for accessing. In this communication network, the discrimination decision circuit for generating the identifier corresponding to the data value from which the 1st plurality was changed is also included. In order to receive the data value from which the 1st plurality was changed, it connects with an inverter, and a store circuit is connected to a discrimination decision circuit in order to receive an identifier. A store circuit stores the data value from which the 1st plurality was changed into the storage location corresponding to an identifier.

[0012] Furthermore, with the 3rd gestalt, the method of composing an electronic filing document within a computer network is offered. the step of which two or more electronic filing documents are composed in two or more groups, and the step which two or more groups are alike, respectively receives, and defines URL are contained in this approach.

[0013] Furthermore, an electronic mail system is offered with the 4th gestalt. In order to carry out grouping of two or more electronic mail documents, the category listing device which creates two or more categories is contained in this electronic mail system. URL is assigned to each of two or more categories. The electronic mail box for receiving two or more electronic mail documents is also contained in this electronic mail system. The user dialogue equipment for assigning alternatively of two or more categories each of two or more electronic mail documents to one is also contained in this electronic mail system. URL corresponding to one URL in two or more categories is assigned to each of the electronic mail document to which plurality was assigned.

[0014] Furthermore, with the 5th gestalt, the computer program product in a computer-readable medium for composing an electronic filing document within a computer network is offered. The equipment for composing an electronic filing document in two or more groups and the equipment for assigning each of two or more groups URL are contained in this computer program product [0015].

[Embodiment of the Invention] This invention enforces the data processing system and the methodology for the archive of the electronic mail messages in communication system, such as the Internet, fetch, and storing. By changing, an electronic message into an HTML document (web page), the data processing system and the methodology of this invention offer high flexibility by the user of communication system. By storing an electronic mail message as a web page, it can be made the group of the page of the "web" which uses the HTML format which explained each of an e-mail message above, or a page. Since you can embed other language or protocols in a web page format, please care about that it is not necessary to make the whole message a HTML format. For example, in this alternative example of this invention, a part of message is convertible for a pad MIME mold. Furthermore, since the data processing system and the methodology of this invention are based on a HTML standard in the one example, if this invention is used, they can be accessed from all the tools designed in order to use it for the archive of an electronic message to documents, such as a search engine, and World Wide Web. Since the technique and

tool which a web user can use without modification of an archive format in this invention can be used by this accessibility, this accessibility is very useful.

[0016] Furthermore, this invention should care about enforcing the data processing system and the methodology for composing to the storage space which can give the description which follows request of an external user in an electronic mail message and other HTML documents. Such a storage space offers the approach of recognizing easily for the convenience for storing an HTML document in the Internet or another communication network. In the one example of this invention, such a storage space can be carried out as a folder. Therefore, if this invention is used, the archive of an electronic mail message can be shared among users in the form which can be navigated very automatically and easily. If using this invention, speaking concretely, these archives can be shared through the step simply carried out like perusal of a website. As stated above, any web browsers can be used. Furthermore, since the browser for almost all operating system platforms is available, the user who shares an archive does not need to install the same software platform. Moreover, common use can be performed on the level of the precision for which a user asks. For example, a user can have an access privilege to a part of 1 set of message in the whole archive and an archive, single message, or single message.

[0017] During the data processing system of this invention, and operation of methodology, URL corresponding to each part of electronic mail is assigned. In the one example of this invention, URL of the subsection of an e-mail message or an e-mail message is generable according to the category containing the message. Furthermore, in the one example of this invention, each of the category for storing URL embedded in the subsection of each part of e-mail the e-mail message itself, and an e-mail message and an e-mail message can be mutually linked using a hypertext technique, and a useful and flexible index creation function and a cross-reference function can be generated. Furthermore, it enables him for a user to mount all the functions of network browsers, such as Mosaic and Netscape Navigator, to access an electronic mail message, and to use by composing an electronic message as a web page. Operation and use of this invention are later explained to a detail.

[0018] Before giving detailed explanation of this invention, the outline of the environment where this invention operates is explained briefly. Furthermore, by the following explanation, in order to bring about a perfect understanding of this invention, many concrete details are shown. However, probably, it will be clear to this contractor that this invention can be carried out without such a concrete detail. By the case of being other, it was detailed, and in order [being unnecessary] not to make this invention not clear, the well-known circuit was shown by the block graphic form formula. The detail about examination of timing etc. was unnecessary although a perfect understanding of this invention is acquired, and since it was contained in the technique of those who have the usual technique in related technique, it was omitted as much as possible.

[0019] Although a drawing will be referred to from now on, the element of illustration not necessarily shows but [not as full size] the same or similar element with the same sign through two or more drawings.

[0020] Drawing 2 is drawing showing the communication network based on the client-server model usually used by the Internet. Explanation of the following drawing 2 is offered in order to show the Internet environment used by this invention.

[0021] The large-scale network of accessible "server" 210 is included in the Internet by "client" 212 on a concept. Each of two or more clients 212 is usually the user of a personal computer. A client 212 accesses the Internet through the Internet access offer contractors 214 (Internet America (trademark), etc.) and the online service provision contractors 216 (America On-Line (trademark), AT & T WorldNet (trademark), etc.). Each of a client 212 can perform the "browser" which is the known software tool used for accessing a server 210 through the Internet access offer contractor 214 and the online service provision contractor 216. Each server 210 manages alternatively the "website" which supports the file of the forms of a document and a page. The network pass to a server is identified by the uniform resource locator (URL) which has the known functor for defining network connection.

[0022] As stated above, World Wide Web is the set of the server on the Internet which uses a HyperText Transfer Protocol (HTTP). HTTP is a known application protocol which uses a known

standard Page Description Language as HyperText Markup Language [HTML], and provides a user with access to a file. These files should care about that it can consider as a format which is [video / a text, graphics, an image, voice.] different HTML offers fundamental document formatting and a developer can specify now the "link" to other servers or files by using HTML. Assignment of the link through URL is included in use of a HTML conformity browser. To such assignment, one of clients 210 can give a TCP/IP demand to one identified by the link among two or more servers 210, and it can receive a web page (document by which formatting was specifically carried out according to HTML) as the response.

[0023] Drawing 3 is drawing showing the data processing system 300 which can be used for mounting "client" 212 which perform the methodology of this invention. The central processing units (CPU) 310, such as a microprocessor, are contained in data processing system 300. CPU310 is combined with other various components through a system bus 312. A programmable read only memory (ROM) 316 is combined with a system bus 312, and the basic input/output system (BIOS) which controls part of basic function of data processing system 300 is contained in ROM316. Random access memory (RAM) 314, an input / output adapter 318, and a communication adapter 334 are also combined with a system bus 312. An input / output adapter 318 can be used as the SCSI (small computer system interface) adapter which communicates with disk storage 320. A communication adapter 334 interconnects a system bus 312 with an external network, and this data processing system enables it to communicate with other data processing system. An I/O device is also connected to a system bus 312 through the user interface adapter 322 and the indicating-equipment adapter 338. All a keyboard 324, trackballs 332, the mice 326, and loudspeakers 328 interconnect in a system bus 312 through the user interface adapter 322. The display monitor 338 is combined with a system bus 312 by the display device adapter 338. In this form, a user can input into a system through a keyboard 324, a trackball 332, or a mouse 326, and can receive an output from a system through a loudspeaker 328 and the display monitor 338.

[0024] CPU310 of data processing system 300 can be used, and the parser 350 who is a software function can be performed, and a parser can also carry out with another circuit apparatus. A parser needs to care about that a definition can be given as a subsystem of the software program which scans an input stream, or a program, in order to be used very frequently by computer programming, and to usually identify an element required for the next phase of processing of a program.

[0025] One example of a parser is a run string processor. In order to give detailed explanation of a parser, an external user examines the case where it inputs as follows by the DOS prompt DIR D: MYDATA/P parser provides the next phase of the program under reception and activation, or the following subsystem with the following items for this input,

Command = "DIR"
Parameter = "D:MYDATA"
Option = "P"

[0026] The program which mounts the "DIR" command can be called in the next phase. The remaining data (namely, a parameter and an option) are given by the parser, by this, that program scans the directory "MYDATA" of a drive "D:" in this program, and what (" /P" option) is halted whenever it displays the information for 1 page comes be made as for it. Furthermore, operating systems, such as AIX ("AIX" is the trademark of IBM Corporation), are used, and the function of various components shown in drawing 3 is adjusted.

[0027] Working, CPU310 also performs software relevant to a browser 352, in order to perform various functions including access and retrieval of an electronic mail message by one example of this invention explained to a detail later. As stated above, a browser is a general identifier given to the class of the computer program used for access of the document on World Wide Web. A browser 352 communicates with the program which manages a WWW document through the HTTP protocol called a HTTP server, a HTTP demon, or a web server in this invention. A browser receives the demanded document as a HTTP stream, extracts the HTML text contained in a HTTP stream, interprets a HTML protocol, and displays the result on a local display.

[0028] Furthermore, in case information is received through a network, in order to provide a

<http://www4.ipd.npoip.gov.jp/cgi-bin/tran.web.cgi.cgi>

17/08/09

browser 352 with right data with a parser 350, it depends for CPU310 on a certain protocol. Please care about that a protocol is the collection of regulations which defined how two stereos communicate in the form where it was strict and the format was followed. In this invention, TCP/IP for the packet distribution with the dependability which minds [software] a browser 352 and HTTP for the communication link between web servers, and two or more protocols that have original properties, such as what is used by Lotus Notes (trademark), are contained.

[0029] The example as a computer system program for performing the approach explained on these specifications and the example as a computer program product are included in some examples of this invention. According to the computer system example, the instruction set for performing this approach resides in RAM314 of one or more computer system which has the configuration explained generally in the top permanently. This instruction set is storable as a computer program product in another computer memory until it is required by computer system. For example, it is storable in disk storage 320 (finally an optical disk, a floppy disk, etc. can be used within disk storage 320, and can be demounted, and possible memory can be included). [0030] Furthermore, this computer program product is stored in another computer, when wanted, can call at a network, or can be transmitted to a user's workstation by the computer-readable medium by external networks, such as the Internet. If it is this contractor, physical storage of an instruction set will understand changing physically the medium by which an instruction set is stored so that a medium may support computer-readable information. This change can be considered as other electric, magnetic, and chemical or physical change. Although it is convenient to explain this invention about an instruction, a notation, an alphabetic character, etc., a reader needs to care about that these and all the similar vocabulary relate to a suitable physical element.

[0031] Please care about describing other vocabulary which can be related with a comparison, verification, selection, or human being's operator in this invention. However, it is desirable for there to be no actuation of the actuation of a publication according [some at least] to human being's operator in this specification which forms a part of this invention. Actuation given in this specification is machine operation which processes an electrical signal, in order that most may generate other electrical signals.

[0032] Actuation of this invention is explained to a detail after this. Reference of drawing 4 shows the flow chart showing the methodology enforced in the one example of this invention for reception of an electronic mail message, storing, and an archive. Each of the step performed by drawing 4 is performed under one control in the component of the data processing system 300 of drawing 3.

[0033] The methodology for fetch of an electronic mail message, storing, and an archive is started at step 402 under control of CPU310. Then, a message is taken out from the source of supply on the Internet through a communication adapter 334 at step 404. The Internet should care about describing it as the "network" comprehensively in drawing 3.

[0034] At step 406, CPU310 judges whether the taken out message is a HTML format by examining the contents of a message header or the message. CPU310 performs this judgment by scanning an arrival-of-the-mail message using a parser 350, and performing analysis actuation which judges whether that message is an HTML document. In order to enforce analytical technique of step 406, the translator program 356 performed by CPU310 investigates the marker of the header of e-mail, or the contents of data of e-mail, and judges the format of e-mail. Please care about a certain field being used, and this invention analyzing the field, and detecting the existence of a message or the absence in a HTML format in the conventional Internet electronic mail. When a message is not a HTML format, CPU310 changes the message into a HTML format at step 408. The example of such conversion actuation is shown in Appendix A.

[0035] If applications, such as Netscape Mail (trademark), are used, a user needs to care about that an electronic mail message can be transmitted now in a HTML format. In Netscape Messenger, application for communicating an electronic mail message through intranet and the Internet is mounted. This application is unified by Network Composer (trademark) and can create now the electronic mail message which a user serves as a web page equipped with graphics, the

<http://www4.ipd.npoip.gov.jp/cgi-bin/tran.web.cgi.cgi>

17/09/09

image, and the Java applet. By edit which becomes possible by Netscape Composer, Netscape Messenger application can transmit now the electronic mail message equipped with the appearance and behavior like a web page. However, the application of these conventional techniques is not equipped with the important organization capacity in the form which this invention proposes.

[0036] Furthermore, Lotus Domino (trademark) application is equipped with such a conversion technique. When a user demands the document which is not a HTML format with Lotus Domino (trademark) application, Lotus Domino (trademark) application changes the document into a HTML format, and a user enables it to receive it.

[0037] After being received in a HTML-format or changing a message into a HTML format, it is step 410, and CPU310 accesses a parser 350, it analyzes a received message and finds embedded URL. CPU310 can judge existence of URL by analyzing the taken-out message and detecting existence of a prefix "http", "ftp" and "gopher", are contained in another prefix which shows existence of URL. After analyzing URL embedded in the message, CPU310 is step 412 and supplies the data signal and control signal for displaying a message in a suitable form.

[0038] A suitable form to offer a message changes according to the class (namely, an electronic mail, a digital page, the short message from a cellular phone) of messages to offer. For example, CPU310 can supply the suitable data signal and suitable control signal for the indicating-equipment monitor 338 enables it, as for the indicating-equipment adapter 336, to display the text of an electronic mail message on a user. Instead, although CPU310 is not illustrated by a pocket bell adapter, a cellular telephone adapter, and drawing 3 R3, it can supply the suitable well-known data signal and suitable well-known control signal for the same equipment to this contractor. When a data signal and a control signal are received, a pocket bell adapter can emit a notice sound and can display the telephone number relevant to a message. Similarly, a cellular phone can emit a notice sound and can display the telephone number or a message according to short messaging service.

[0039] After displaying a message at step 412, CPU310 performs step 414 and adds subsection to the message currently displayed alternately. The subsection used here functions in the same form as "a bookmark (bookmark)" or a document fragmentation identifier. Subsection "can be added" to a message through automatic methodology and non-automatic methodology. When adding subsection to a message in a non-automatic form, a user can only add a "hyperlink" to the suitable location in a message.

[0040] In order to add a hyperlink, through use of other user inputs supplied to a mouse 326 or the user interface adapter 322, subsection is shown and it transmits to CPU310 after that. Please care about that carry out highlighting of the hyperlink or subsection is shown according to another well-known access methodology by pointing at the hyperlink text in the displayed message. Instead, the actuation which shows that subsection must be chosen manually and a hyperlink must be inserted there is automatable so that subsection may be added immediately after being identified by the external user. Please care about that subsection is automatically detectable in accordance with a predetermined decision criterion in the alternative example of this invention. For example, subsection can be automatically inserted, when certain information in the "header" section of an HTML document is detected. When a user shows that subsection must be inserted, CPU310 supplies a data signal and a control signal required to insert a link identifier into the HTML code relevant to an electronic message. For example, the link relevant to subsections subsection1 and subsection2 is specified in the following form.

 -- -- [0041] When adding

a user receives the message corresponding to a new topic, the user can choose creation of the category which uses the technique of the common knowledge which is not explained to a detail on these specifications. After newly creating the category which determines the category which places a message or places a message, a message is stored in memory at step 420. The memory can be used as the memory located on the remote server which considers as the local memory in data processing system 300, or is identified as memory corresponding to a user. Then, the website which the user has accessed in order to generate the web page corresponding to an electronic mail message generates URL corresponding to the message.

[0042] URL is generated according to the standard protocol explained in the bottom. The first message "MSG1" assumes that it was transmitted to the Internet server (the Internet access offer contractor 214 or online service provision contractor 216) called "MYSERV". The mail corresponding to a user is stored in the location called "MYMAIL" within the server. When MSG1 is transmitted to MYSERV through local connection or network connection, MYSERV puts the data of MSG1 on the storage location MYMAIL. URL of a result generated by this server is as follows.

[http://MYSERV/MYMAIL/MSG1 \[0044\]](http://MYSERV/MYMAIL/MSG1 [0044]) Next, URL of subsection is completed at step 424. In this case, the suffix before generated at step 416 is added to URL generated at step 422. Therefore, in "subsection1", the final corresponding subsection URL is generated in the following form.
[http://MYSERV/MYMAIL/MSG1 / #subsection1 \[0045\]](http://MYSERV/MYMAIL/MSG1 / #subsection1 [0045]) Furthermore, when MSG1 has the 2nd subsection, the subsection URL corresponding to it becomes the following form.
[http://MYSERV/MYMAIL/MSG1 / #subsection2 \[0046\]](http://MYSERV/MYMAIL/MSG1 / #subsection2 [0046]) A server (MYSERV) generates URL of subsection automatically based on URL of the stored message (MSG1).
[0047] Next, URL is added to the index stored in the memory which can be accessed by CPU310, and it expresses to an external user as step 426. At step 428, CPU310 judges whether a new message was received. When a new message is received (step 430), the message is taken out and the flow of a program returns to step 404. However, when new message is not received, the delay step 432 is performed and the flow of a program returns to step 428.
[0048] Drawing 5 is drawing showing the example of the index which is created by one example of this invention and displayed on a user's indicating equipment. The message is divided into two topics in Robert's Index which is the 1st index 502. These topics are called as an ensemble "...Messages Robert's topic 1" and "Messages Robert's Topic 2". The indexing of the four messages is carried out to the 1st topic (Topic 1). Furthermore, Message 3 (message 3) should care about identifying three subsections in it. Generation of subsection was explained to the detail above.
[0049] Furthermore, please refer to the 2nd topic shown in the index 502. The indexing of Message 5 is carried out in this topic. Furthermore, Message 5 identifies the "N" link to other web pages or documents. These links are created and the external user of an index 502 can make it possible to search other available documents through a communication network by detecting URL embedded in the message.
[0050] Furthermore, please refer to the index 504 which is Beth's Index (Beth's index). This is one example of this invention and is the 2nd index created for the 2nd external user. However, please care about that a single user can have two or more indexes according to need or hope of a user. In the Beth's index 504, some messages about Robert's Topic 2 are stored. Refer to the URL corresponding to "Messages Robert's Topic 2" in an index 502 for this index. Furthermore, refer to each section in the message under a specific topic for the Beth's index 504 with reference to each message (508) of the topics (510).

[0051] Access and retrieval of a message can be performed by explaining in a top, and a user's using each of the index shown in drawing 5 in a flexible form, and using the known Internet

retrieval technique through use of a message, its subsection, and the index interface that is intuitive and displays a corresponding link simply in a user and a FRIENDLY form. Therefore, this invention offers the data processing system and the methodology are moderately satisfied with all the need for a user and to which a user enables it to generate a complicated indexing method without the need of being bound to the protocol of specification [a user], by changing

examples, an underline is given to the difference between an HTML document and an electronic mail. An HTML document becomes the following form.

[Table 4]

[Page 5] <http://www.iit.edu/~mca/117/117.html>, 12 Feb 2017

SCHOOL OF WISDOM

Here's the *juwsi* of the book, on patients.

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Table of Contents ...

[Boss] The text is the same to a tail and the following HTML code is inserted in a tail.

卷之三

[0056] Then, a server generates URL of the following form for this message.
[http://www.mailserver.bethcompany.com/mailboxe/beth/msg001\[0057\]](http://www.mailserver.bethcompany.com/mailboxe/beth/msg001[0057]) This URL is kept by the main memory of the data processing system of this invention in order to use it at a next step. Then, it is assumed that this MESSSE was displayed on the external user. When a user determines that he will call the automatic function for adding subsection to this message, a user chooses a "auto-index" function from an option menu in the one example of this invention. A user's system scans this message and looks for the function which can be recognized for index creation. The document which had the index which has the following forms created is brought about. An underline is attached to the difference between the auto-index version and an earlier version, and a difference of two documents is emphasized.

http://www4jpdrncipi.go.jp/cgi-bin/tran_web.cgi-ejje

Absurd
Table of Contents
Chapter 1 - Getting Started
Chapter 2 - Getting Cringy
Chapter 3 - Keep Going
Chapter 4 - Don't Sign Now
Chapter 5 - Almost Finished
Chapter 6 - Finishing Up
Appendix A - Working with a Patent Attorney
Glossary
Index

Chapter 1 - Getting Started [Character 0 - Entering URL]

How to start at the beginning.

Chapter 2 - Getting Cringy [Character 2 - Finishing Going]

Follow the yellow-brick road.

Chapter 3 - Almost Finished [Character 3 - Almost Finished]

Repeat: Follow the yellow-brick road.

Chapter 4 - Don't Sign Now [Character 4 - Don't Stop Now]

Follow: follow, follow, follow the yellow-brick road!

Chapter 5 - Almost Finished [Character 5 - Almost Finished]

We're all to see the wizard that a wonderful wizard of Oz.

[Table 8]

[Table 9]
[Index]

Apple
Application
Banana
Book
Chicken
Lizard
Wizard

<PRE>
<BODY>
<HTML>

[0058] At this time, a user's system scanned the message, identified the suitable item including a chapter, an appendix, etc., and has attached the "tag." Next, it is assumed that it was thought that a user wanted to mark original subsection. A user "clicks" some message texts using a mouse. [choose and] A user chooses the item 4 of Appendix A, and if it assumes that the next reply was supplied, a user's system will answer using the following dialog.

Submission name: Patent_Joke
 Categories: Joke-Langlers
 Jokes-Patents

[0059] The corresponding point of a HTML message (HTML) is changed so that it may have the following format. Please care about having attached the underline to the difference between a front code and a lower code.

[Table 10]

[0060] It is assumed that there are a few things to keep in mind though:

- 1) Get to the point. Tempus fugit.
- 2) Avoid promises you can't keep.
- 3) Don't forget the file at the end of the name when addressing e-mail.
- 4) And by all means remember: lawyer jokes are in poor form.
- 5) They will probably get you off to a bad start and may ruin your chances at the patent office. Substitute Patent_Joke <u></u>

Gluebox <u> name="Gluebox" </u>

Applic

Hammer

Chicken

Cow

Dog

Index <u> name="Index" </u>

Applic
 Hammer
 Cow
 Dog

[Table 11]

Chicken
 Wizard
 Wizard

<HTML>

<BODY>

<HTML>

[0060] It is assumed that it was finally determined that a user kept this message. In order to perform such a function, a user chooses "storage" function from the menu carried out by the operating system. Then, a user's system performs the following steps.

1. A message is kept as a file name "msg0001.html" by the storage space specified by the following URL <http://www.mailserver.bethcompany.com/mailboxes/beth/jokes/patents>

"<http://www.mailserver.bethcompany.com/mailboxes/beth/msg0001.htm>" is added to the file name "index.htm" in the same storage space as step 1.
 3. Add URL of subsection immediately after URL of step 2 of "index.htm".
 4. Store
[#Patent_Joke](http://www.mailserver.bethcompany.com/mailboxes/beth/msg0001.htm) of the following format in the file name "index.htm" in the storage space shown by <http://www.mailserver.bethcompany.com/mailboxes/beth/jokes/lawyers>.
 5. Store
[#Patent_Joke](http://www.mailserver.bethcompany.com/mailboxes/beth/msg0001.htm) of the following format in the file name "index.htm" in the storage space shown by <http://www.mailserver.bethcompany.com/mailboxes/beth/jokes/patents>.
 6. A system waits for the next demand of a user.
 [0061] At this time, the index is specified in the lower form.
 Primary index: <http://www.mailserver.bethcompany.com/mailboxes/beth/index.html> [Table 12]
<INDEX>
<HTML>
<HEAD>
<TITLE>Saved Mail </TITLE>
<HEAD>
<H1>Y>
<H2>Saved Mail </H2>
<H3>
<D>Patient Application Status
<D>More Info
<D>WhitePaper & Purchases
<D>
<D>Abstract
<D>Tasks of Counselor
<D>Chapter 1 - Getting Started
<D>Chapter 2 - Getting Going
<D>Chapter 3 - Keep Going
<D>Chapter 4 - Don't Stop Now
<D>Chapter 5 - Almost Finished
<D>Chapter 6 - Finishing Up
<D>Appendix A
<D>Glossary
<D>Tables
<D>
<D>Index
<D><H1>Y</H1>

[0062] When this code is performed, an index is displayed on a display in the following format.

[Table 13]

2-09-'05 18:44 FROM-SoCal IP Law Group

+1-805-230-1355

T-096 P039/119 F-486

- Index of Saved Mail
- Parent Application
- More Info
- Who Pays on
- Abstract
- Table of
- Chapter I
- Chapter 2
- Chapter 3
- Chapter 4
- Chapter 5
- Chapter 6
- Chapter 7
- Chapter 8
- Appendix
- Glossary
- Index

[0083] After a user keeps two additional messages, an index is coded in the following format:

```

<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 3.2 Final//EN">
<html>
  <head>
    <title>Saved Mail</title>
  </head>
  <body>
    <h1>Saved Mail</h1>
    <table border="1">
      <tr>
        <td><a href="mailto:John@Ahsoka's Alias">Plaza Application Status</a></td>
        <td><a href="mailto:00000000000000000000000000000000">More Info</a></td>
      </tr>
      <tr>
        <td><a href="mailto:Jango@Ahsoka's Alias">Watch Party on Helios</a></td>
        <td><a href="mailto:Jango@Ahsoka's Alias">Details of Contact</a></td>
      </tr>
      <tr>
        <td><a href="mailto:Jango@Ahsoka's Alias">Chapter 1 - Letting Nerfz Out</a></td>
        <td><a href="mailto:Jango@Ahsoka's Alias">Details of Contact</a></td>
      </tr>
      <tr>
        <td><a href="mailto:Jango@Ahsoka's Alias">Chapter 2 - Getting Groggy</a></td>
        <td><a href="mailto:Jango@Ahsoka's Alias">Details of Contact</a></td>
      </tr>
      <tr>
        <td><a href="mailto:Jango@Ahsoka's Alias">Chapter 3 - Keep Using X</a></td>
        <td><a href="mailto:Jango@Ahsoka's Alias">Details of Contact</a></td>
      </tr>
      <tr>
        <td><a href="mailto:Jango@Ahsoka's Alias">Chapter 4 - Don't Stop Now</a></td>
        <td><a href="mailto:Jango@Ahsoka's Alias">Details of Contact</a></td>
      </tr>
      <tr>
        <td><a href="mailto:Jango@Ahsoka's Alias">Chapter 5 - Almost Finished</a></td>
        <td><a href="mailto:Jango@Ahsoka's Alias">Details of Contact</a></td>
      </tr>
      <tr>
        <td><a href="mailto:Jango@Ahsoka's Alias">Chapter 6 - Finishing Up</a></td>
        <td><a href="mailto:Jango@Ahsoka's Alias">Details of Contact</a></td>
      </tr>
      <tr>
        <td><a href="mailto:Jango@Ahsoka's Alias">Appendix A</a></td>
        <td><a href="mailto:Jango@Ahsoka's Alias">Details of Contact</a></td>
      </tr>
      <tr>
        <td><a href="mailto:Jango@Ahsoka's Alias">Appendix B</a></td>
        <td><a href="mailto:Jango@Ahsoka's Alias">Details of Contact</a></td>
      </tr>
    </table>
  </body>
</html>

```

http://www4.ipdl.nicpiug.jp/cgi-bin/trans_web.cgi/ejje

11/60/09

<http://www4.ipdlncipi.go.jp/cgi-bin/trans.cgi>

60/60/11

- Index of Saved Mail
 - Patent Application Status From:Robert.Treas Date: 11/01/97
 - More Info From:Robert.Treas Date: 11/02/97
 - White Paper on Patents From:Robert.Treas Date: 11/03/97
- Abstract
- Table of Contents
 - Chapter 1 - Getting Started
 - Chapter 2 - Getting Going
 - Chapter 3 - Know Going
 - Chapter 4 - Don't Stop Now
 - Chapter 5 - Almost Finished
 - Chapter 6 - Finishing Up
- Appendix A
- Glossary
- Index
 - Patent Addendum
 - Ref ID: Y. Patent Addendum

[0055] Please care about that the approach of displaying an index is very flexible, and it is powerful. The example shown above is for not making this invention not clear unnecessarily. For example, another method of adding information (the date and transmitting person) to an index is shown in a lower code.

[Table 16]

[Table 17]

```
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
<HTML>
<HEAD>
<TITLE>Saved Mail</TITLE>
<HEAD>
<BODY>
<H1>Index of Saved Mail<H1>

<table border="1" style="width: 100%; border-collapse: collapse; font-family: sans-serif; font-size: 10pt; border: 1px solid black; margin-bottom: 10px; padding: 5px; text-align: center; border: 1px solid black; border-collapse: collapse; width: 100%;>
<tr>
<td><a href="#">Index</a></td>
<td><a href="#">About</a></td>
<td><a href="#">Table of Contents</a></td>
<td><a href="#">Getting Started</a></td>
<td><a href="#">Glossary</a></td>
<td><a href="#">Index</a></td>
<td><a href="#">Patent Addendum</a></td>
<td><a href="#">White Paper on Patents</a></td>
<td><a href="#">Feedback</a></td>
<td><a href="#">Logout</a></td>
</tr>
</table>
```

[0065] When the code shown above is performed, the following index is displayed on the display with which an external user is provided.

| Subject | From | To |
|--|----------------|----------|
| Patent Application Status | Robert Tressel | 1/6/1997 |
| More Info | Robert Tressel | 1/6/1997 |
| White Paper on Inventors | | |
| <ul style="list-style-type: none"> * Abstract * Job of Inventor * Chapter 1 - Getting Started * Chapter 2 - Creating, Giving * Chapter 3 - Tech Coming * Chapter 4 - Don't Stop Now * Chapter 5 - Almost Finished * Chapter 6 - Finishing Up * Appendix A * Appendix B | Robert Tressel | 1/6/1997 |
| Patent Atticendum | Robert Tressel | 1/6/1997 |
| EEI Yr. Patent Atticendum | Robert Tressel | 1/6/1997 |

accessed by clicking an only suitable text. A response message can be transmitted by clicking the name of the "From:" field.

[0068] The index of other "joke" archives is formed similarly. For example, in the example explained above, although some "joke" information was kept, the file by which the information is kept is shown by the following URL:

<http://www.mailserverbethcompany.com/mailboxes/bethpaperley/jokes/index.html> [0069] The code of the part should have the following format after that.

[Table 19]

```
<?XML TYPE="HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
<HTML>
<HEAD>
<TITLE>jokes</TITLE>
<H1>A1>
<BODY>
<H1>Index of joke</H1>
<ul>
<li><a href="lawyers/index.html">Lawyers</a>
<li><a href="patent/index.html">Patents</a>
</ul>
</BODY>
</HTML>
```

[0070] Please care about that a user clicks either "Lawyers" or "Patents", and can display the contents of that archive in this code. Furthermore, it is assumed that it was determined that a user clicked at text "Lawyers." A user will access the file shown by the following URL:

<http://www.mailserverbethcompany.com/mailboxes/beth/jokes/lawyers/index.html> [0071] The following code is taken out when the index is accessed.

[Table 20]

```
<DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
<HTML>
<HEAD>
<TITLE>jokes</TITLE>
<H1>A1>
<BODY>
<H1>Index of joke</H1>
<ul>
<li><a href="whitepaper/index.html">WhitePaper</a>
<li><a href="mailto:patent_joke@benthcompany-mailmailbox.net#msg001.htm">
#Patent_Joke >Patent Joke</a>
</li>
</ul>
</BODY>
</HTML>
```

[0072] Although this is stored in the storage space to which perfect description (Joke#1) was able to attach the label "Lawyers", please care about that it is the example which shows that "Patent_Joke" which is a part of "WhitePaper on Patents" is not stored there. URL so and used for access of a storage space has pointed out the memory fragment which was able to attach the label within the original message. Such a situation is almost the same also about the folder called "Patents." This specification does not show the detail beyond this. However, in this archive, please care about that the same fragment in the message of the origin called "Patent_Joke" is shared.

[0073] In the example below, example of example A of actuation of others [Appendix A], it is assumed that the user has received the electronic mail message. Alphanumeric characters are contained in an electronic mail message as explained above. When the message is actually

<https://www.w3.org/Internationalization/qa/testdir/html/char-test/char-test.html>

17/08/09

<http://www4.indiaindia.com/web/sri-sree>

17/09/08

encoded as HTML, the message can specifically be easily detected by scanning the HTML element containing the first line which begins from <DOCTYPE> declaration, and the HEAD element and BODY element following it. The example of such an electronic mail message is shown below.

```
[Table 21]
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 1.2 Final//EN">
<HTML>
<HEAD>
<TITLE>Sample HTML Document</TITLE>
... (5) head part #
</HEAD>
<BODY>
... XHT body is
</BODY>
</HTML>
```

[0074] Furthermore, when the message is not described by HTML, the message inserts the required theme field suitably, and can change it by carrying out the lap of the contents of an alphabetic character. For example, it is assumed that the following electronic mail message was transmitted.

To : BethFrom: RobertSubject: InformationHi, I have some more information for you.Regards.
Robert [0075] In order to carry out the lap of the contents of an alphabetic character in the required field, the following wrappers are added to the contents of the message by CPU310.

```
[Table 22]
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 1.2 Final//EN">
<HTML>
<HEAD>
<TITLE>Sample HTML Document</TITLE>
<BODY>
... (5) body part #
</BODY>
</HTML>
```

[0076] Next, since a format of a message is saved, a body part is surrounded with the <PRE> tag. This is shown below.

```
[Table 23]
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 1.2 Final//EN">
<HTML>
<HEAD>
<TITLE>Sample HTML Document</TITLE>
<BODY>
... (5) body part #
</BODY>
</HTML>
```

[0077] Then, "TO" field of the original message and the "FROM" field are used, and an address section is created. This creation is shown below.

<http://www4.ipd.nicpi.go.jp/cgi-bin/tran.web.cgi?eje>

17/09/09

[Table 24]
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 1.2 Final//EN">
<HTML>
<HEAD>
<TITLE>Sample HTML Document</TITLE>
<BODY>
<ADDRESS>
To: kobayashi@nicpi.go.jp
From: yamada@nicpi.go.jp
<ADDRESS>
<PRE>

```
Hi,
I have some more information for you.
Regards,
Robert
```

<PRE>

</PRE>
<HTML>

[0078] Furthermore, when the theme is specified by the original message, this is added to an address section.

```
[Table 25]
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 1.2 Final//EN">
<HTML>
<HEAD>
<TITLE>Sample Application</TITLE>
<HEAD>
<BODY>
<ADDRESS>
To: <a href="mailto:kobayashi@nicpi.go.jp">kobayashi@nicpi.go.jp</a>
From: <a href="mailto:yamada@nicpi.go.jp">yamada@nicpi.go.jp</a>
Subject: Sample Application<BR>
<ADDRESS>
<PRE>
```

```
Hi,
I have some more information for you concerning the invention.
Regards,
```

```
Kobayashi
```

[0079] Many methods of changing an example B document into HTML should exist, and these approaches should care about this contractor that it is common knowledge. Furthermore, although the above-mentioned explained the step which can be used for changing a document into HTML for the purpose of this invention, in the following examples, the document which has an attached file (enclosure) is received and the approach of filing is offered. In the following examples, the e-mail message is already created and please care about having two attached files, i.e., a jpg image, and a gif image.

[0080] The message received by CPU310 is shown below.

[Table 26]

17/09/09

<http://www4.ipd.nicpi.go.jp/cgi-bin/tran.web.cgi?eje>

17/09/09

MIME-Version: 1.0
 To: Ichikawa
 From: Robert T
 Subject: Here are the files:
 Content-Type: multipart/related;
 boundary=unique-boundary-1
 -unique-boundary-1
 Content-type:plain/text; charset=US-ASCII
 Brk.
 Here are the two files that I'd like you to review. The first one is a jpg.
 The second is a gif.
 Regards,
 Robert

 Content-Type: multipart/related;
 boundary=unique-boundary-2
 -unique-boundary-2
 Content-Type: image/jpeg
 Content-Transfer-Encoding: base64
 ... base64 encoded file follows ...
 ... unique-boundary-2
 Content-Type: image/gif
 Content-Transfer-Encoding: base64
 ... base64 encoded file follows ...
 ... unique-boundary-2
 ... unique-boundary-1

[0081] The step of the beginning of conversion is extracting two files from a message. These files are called image1.jpg and image2.gif. This is not a requirement although these files are physically stored with the changed message. Next, the body part of a message is changed like a front example, and the following is created.

[Table 27]

[0082] Next, the hyperlink to an image file is added.

[Table 28]
 [DOCUMENT.HTML, PUBLIC "-//W3C//DTD HTML 1.0 Final//EN"]
 <HEAD>
 <TITLE>Here are the files</TITLE>
 <HEAD>
 <TITLE>Here are the files</TITLE>
 <HEAD>
 <ADDRESS>
 To: Bob Appley

 From: Robert T

 Subj: Here are the files

[0083] The explanation indicated by this specification should care about that it is the example of the embodiment of this invention. Furthermore, please also care about that the embodiment of much additions can be used and this invention can be realized. For example, it is not necessary to change the whole message into a HTML format. That is not right and a message can be changed into a format which is [MIME / ASCII] different in the alternative example of this invention. Furthermore, the index shown in drawing 5 is only shown as an example, there is no intention which restricts the range of this invention, and it is not shown that an index must be constituted from this form, either.

[0084] Furthermore, this invention should care about that it can be used with "Plug-in." Plug-in is the neologism which Netscape (trademark) made for the program which uses the interface with which it was opened to the public for extending a Netscape Navigator (trademark) browser. Plug-in is used for mainly offering the support of new data type, such as Real/Audio (trademark) plug-in which introduces a streaming audio into WWW. By other plug-in, in the strengthening function has been added to the browser. Although plug-in can also be used, it is not required of this invention. For example, when a MIME type is included in a message, plug-in can be used and data can be displayed on an indicating equipment. Furthermore, in order to read the message archived using this invention, plug-in can be developed specially.

[0085] As a conclusion, the following matters are indicated about the configuration of this invention:

- (1) In order to generate the step which takes out two or more electronic mail messages from a communication device, and the data value from which the 1st plurality was changed. The step which changes two or more electronic mail messages into the 1st format alternatively. The approach containing the step which stores two or more electronic mail messages in the 1st location in the step which generates the 1st identifier for two or more electronic mail messages, and the store identified by the 1st identifier for categorizing data within data processing system.
- (2) An approach given in the above (1) whose 1st identifier is the 1st URL.
- (3) An approach given in the above (1) whose 1st format is a HyperText-Markup-Language format.
- (4) An approach given in the above (1) corresponding to the web page in a communication network in the 1st location identified by the 1st identifier.
- (5) An approach given in the above (4) whose communication network is the Internet.
- (6) Approach given in the above (1) whose at least one embedded indicator contains further the step which judges the time of being contained in two or more 1st electronic mail messages.
- (7) An approach given in the above (6) whose at least one embedded indicator is embedded URL.
- (8) An approach given in the above (7) whose embedded URL is a link to the web page in a communication network.
- (9) An approach given in the above (1) which contains further the step which generates the 2nd identifier of the sake for two or more electronic mail messages part 1, and the step which stores a part (or part) of two or more electronic mail messages in the 2nd location identified by the 2nd identifier.
- (10) Approach given in the above (1) containing the step which identifies the 1st property of further two or more electronic mail messages.
- (11) Approach given in the above (10) which contains further the step which displays two or more electronic mail messages in the format for which it opts with the 1st property.
- (12) The equipment for accessing two or more electronic mail messages. The conversion means combined with the equipment for [above mentioned] carrying out access for changing two or more electronic mail messages into the 1st format in order to generate the data value from which the 1st plurality was changed. The discrimination decision circuit for generating the identifier corresponding to the data value from which the 1st plurality was changed. The communication network including a store circuit which is combined with a conversion means in order to receive the data value from which the 1st plurality was changed, is combined with a discrimination decision circuit in order to receive an identifier, and stores the data value from which the 1st plurality was changed into the storage location corresponding to an identifier.
- (13) A communication network given in the above (12) whose 1st identifier is the 1st URL.
- (14) A communication network given in the above (12) whose 1st format is a HyperText-Markup-Language format.
- (15) A communication network given in the above (12) corresponding to the web page in a communication network in the storage location.
- (16) The approach containing the step of which two or more electronic filing documents are composed in two or more groups, and the step which assigns each of two or more groups URL for composing an electronic filing document within a computer network.

(17) An approach given in the above (16) which contains further the step which assigns each of an electronic filing document Subsection URL, and the step which creates the hyperlink between the 1st electronic filing document of two or more electronic filing documents, and the 2nd electronic filing document according to corresponding URL.

(18) An approach given in the above (17) of which the 1st electronic filing document of two or more electronic filing documents and the 2nd electronic filing document are composed in the 1st group of two or more groups.

(19) An approach given in the above (17) in which the 1st electronic filing document of two or more electronic filing documents is contained in the 1st group of two or more groups, and the 2nd electronic filing document of two or more electronic filing documents is contained in the 2nd group of two or more groups.

(20) An approach given in the above (17) corresponding to Exterior URL in the 2nd hyperlink.

(21) An approach given in the above (16) which contains further the step which judges whether an electronic filing document is a hypertext format, and the step which changes an electronic filing document into a hypertext format.

(22) Approach given in the above (21) containing the step which creates URL for the section in the selected electronic filing document further.

(23) An approach given in the above (16) whose at least one of two or more groups contains electronic filing documents other than one of two or more electronic mail documents.

(24) An approach given in the above (18) which contains further the step which copies the 1st electronic filing document of two or more electronic filing documents to the 2nd group of the 1st group to two or more groups of two or more groups, and the step which changes URL corresponding to the 1st electronic filing document of two or more electronic filing documents so that it may correspond to the 2nd group of two or more groups.

(25) Approach given in the above (18) which contains further the step which stores two or more electronic filing documents in the storage location relevant to URL.

(26) Approach given in the above (16) containing the step which requires access to two or more electronic filing documents in the storage location relevant to URL further.

(27) Approach given in the above (16) which contains further the step which creates an accessible web page through URL.

(28) Approach given in the above (27) corresponding to URL of two or more links assigned to each of two or more groups, respectively including the step which creates two or more links on a web page further.

(29) Approach given in the above (16) which contains further the step to which an external user enables it to access at least the part of two or more electronic filing documents when an external user inputs URL into a computer network.

(30) Approach given in the above (16) containing the step which an external user does further by the ability not accessing at least the part of two or more electronic filing documents when an external user inputs URL.

(31) An approach given in the above (16) whose URL is a link to the web page in a computer network.

(32) The category creation means for creating two or more categories by which URL is assigned to each, in order to carry out grouping of two or more electronic mail documents. The user dialogue means for assigning one alternatively of two or more categories is included by the electronic mail box for receiving two or more electronic mail documents and two or more electronic mail documents being alike, respectively. The electronic mail system which can assign URL corresponding to one URL in two or more categories of the electronic mail document to which plurality was assigned, respectively.

(33) Electronic mail system given in the above (32) containing the translator for changing alternatively each of further two or more electronic mail documents into a hypertext format.

(34) The computer program product including the means for composing two or more electronic filing documents in two or more groups, and the means for assigning each of two or more groups URL in a computer-readable medium for composing an electronic filing document within a computer network.

(35) A computer program product given in the above (34) which includes further the means for creating the hyperlink between the means for assigning each of an electronic filing document Subsection URL and the 1st electronic filing document of two or more electronic filing documents and the 2nd electronic filing document according to corresponding URL.

(36) A computer program product given in the above (34) in which the 1st electronic filing document of two or more electronic filing documents is contained in the 1st group of two or more groups, and the 2nd electronic filing document of two or more electronic filing documents is contained in the 2nd group of two or more groups.

(37) A computer program product given in the above (34) corresponding to Exterior URL in the 2nd hyperlink.

(38) A computer program product given in the above (34) which includes further the means for detecting whether an electronic filing document is a hypertext format, and the means for changing an electronic filing document into a hypertext format.

(39) Computer program product given in the above (34) including a means to create URL for the section in the selected electronic filing document further.

(40) A computer program product given in the above (34) whose at least one of two or more groups contains electronic filing documents other than one of two or more electronic mail documents.

(41) A computer program product given in the above (34) which includes further the means for copying the 1st electronic filing document of two or more electronic filing documents to the 2nd group of the 1st group to two or more groups of two or more groups, and the means for changing URL corresponding to the 1st electronic filing document of two or more electronic filing documents so that it may correspond to the 2nd group of two or more groups.

(42) Computer program product given in the above (34) which includes the means for storing two or more electronic filing documents in the storage location relevant to URL further.

(43) Computer program product given in the above (34) including the means for requiring access to two or more electronic filing documents in the storage location relevant to URL further.

(44) Computer program product given in the above (34) including the means for creating further the web page which can be accessed through URL.

(45) Computer program product given in the above (44) corresponding to URL of two or more links assigned to each of two or more groups, respectively including the means for creating two or more links on a web page further.

(46) Computer program product given in the above (34) which includes a means for an external user to enable it to access at least the part of two or more electronic filing documents further when an external user inputs URL into a computer network.

(47) Computer program product given in the above (34) which includes a means for an external user to prevent from accessing at least the part of two or more electronic filing documents further when an external user inputs URL into a computer network.

(48) A computer program product given in the above (34) whose URL is a link to the web page in a computer network.

[Translation done.]

* NOTICES *

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is drawing showing an electronic messaging system by the block graphic form formula.

[Drawing 2] It is drawing by one example of this invention showing the usual Internet communication system by the block graphic form formula.

[Drawing 3] It is drawing showing the data processor by one example of this invention by the block graphic form formula.

[Drawing 4] It is drawing showing the approach enforced in order to perform archive of the electronic mail message by one example of this invention, storing, and fetch in the form of a flow chart.

[Drawing 5] It is drawing showing the index created according to one example of this invention by the block graphic form formula.

[Description of Notations]

- 102 Message Enclosure
- 104 Storage
- 106 E-mail User Equipment
- 108 Message Transfer Equipment
- 210 Server
- 212 Client
- 214 Internet Access Offer Contractor
- 216 Online Service Provision Contractor
- 300 Data Processing System
- 310 Central Processing Unit (CPU)
- 312 System Bus
- 314 Random Access Memory (RAM)
- 316 Programmable Read Only Memory (ROM)
- 318 Input / Output Adapter
- 320 Disk Storage
- 322 User Interface Adapter
- 324 Keyboard
- 326 Mouse
- 328 Loudspeaker
- 332 Trackball
- 334 Communication Adapter
- 336 Display Adapter
- 338 Display Monitor
- 350 Parser
- 352 Browser
- 394 Translator Program
- 502 Index
- 504 Index

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